

# IQ SensorNet NH4 Analyzer

ALYZA AMMONIUM ANALYZER



**YSI's Alyza Analyzer for Ammonium provides accurate, reliable measurements for process control. The IQ Analyzer features a revolutionary MultiValve that dramatically reduces reagent use and maintenance requirements.**

The Alyza NH4 is an online, cabinet-style analyzer used for continuous monitoring of ammonium in a municipal water resource recovery facility. This analyzer is weatherproof and can be deployed anywhere in the wastewater treatment process. Applications include monitoring biological tanks to help control ammonium-based aeration control and plant effluent locations to ensure compliance. The analyzer is available as a single-channel or two-channel instrument allowing you to sample from two different locations. It can be used as a stand-alone analyzer or be incorporated into an IQ SensorNet network of sensors.

- Extremely low reagent consumption, 15  $\mu$ L per measurement
- Reliable sample delivery pump built into the cabinet
- Automatic cleaning, lower maintenance requirements
- Automatic calibration, 1 or 2 point
- Filtration unit allows analyzer to process samples with solids concentrations up to 6,000 mg/L
- Uses Indophenol method of detection



# IQ SensorNet NH4 Analyzer

## NH4 Analyzer Specifications

Measuring Method	Berthelot method (Indophenol method)	
Measuring Range	MR 1: 0.02 to 4.00 mg/l NH4-N Displayed: 0.00 to 4.00 mg/l NH4-N Resolution: 0.01 mg/l NH4-N Accuracy: ±3 %, ±0.02 mg/l	MR 2: 0.10 to 20.00 mg/l NH4-N Displayed: 0.00 to 20.00 mg/l NH4-N Resolution: 0.05 mg/l NH4-N Accuracy: ±3 %, ±0.10 mg/l
pH Range	5 to 9	
Sample Temperature	39 to 113 °F (4 to 45 °C)	
Sample Time Interval	1 channel: 10 minutes; 2 channel: 20 minutes	
Solids Contents	< 6 g/l (before filtration)	
Filtration Unit	Filter/PC, FM-Case/PC (please order separately)	
Cleaning	Automatic cleaning with cleaning solution	
Calibration	Automatic 1- and 2-point calibration	
Ambient Conditions	Operational temperature: -4 to +104 °F (-20 to +40 °C); Storage temperature: -4 to +122 °F (-20 to +50 °C)	
Electrical Connection	120 VAC / 240 VAC, 50/60 Hz	
Mechanics	Housing: powder-coated aluminum, UV resistant; Overflow vessel: PMMA	
Weight	Approx. 81.6 lb (37 kg) (without liquids)	
Warranty	2 years	

## NH4 Analyzer Ordering Information

Alyza IQ NH4-111	NH4 analyzer, 1-channel, with 2 measuring ranges, Indophenol method, connects to IQ SensorNet controllers 2020 or 282/284, provides 10 W to IQ SensorNet; including 2 m SNCIQ cable, reagent sets need to be ordered separately	825 011Y
Alyza IQ NH4-112	NH4 analyzer, 2-channel, with 2 measuring ranges, Indophenol method, connects to IQ SensorNet controllers 2020 or 282/284, provides 10 W to IQ SensorNet; including 2 m SNCIQ cable, reagent sets need to be ordered separately	825 012Y
R-Set NH4/1-1	Reagents for Alyza IQ NH4, when using MR 1	827 540Y
R-Set NH4/1-2	Reagents for Alyza IQ NH4, when using MR 2	827 541Y
SC-Set NH4/1-1_0/1	Calibration standards and cleaning solution for Alyza IQ NH4, when using MR 1; Calibration standards with 0 mg/l and 1 mg/l	827 545Y
SC-Set NH4/1-1_0/4	Calibration standards and cleaning solution for Alyza IQ NH4, when using MR 1; Calibration standards with 0 mg/l and 4 mg/l	827 546Y
SC-Set NH4/1-2_0/16	Calibration standards and cleaning solution for Alyza IQ NH4, when using MR 2; Calibration standards with 0 mg/l and 16 mg/l	827 547Y

	Filter/PC	Filter Pump
Materials	Housing: PVC Membrane: Chlorinated Polyethylene	Housing: Polypropylene Membrane: PTFE Pump head: Polypropylene Valves: FPM
Dimensions	Frame: 27 x 36 x 3 cm; 10.63 x 14.17 x 1.18 in (W x L x H) Including air pressure connector: 27 x 38 x 3 cm; 10.63 x 14.96 x 1.18 in (W x L x H)	Housing: 12 x 19 x 15 cm; 4.72 x 7.48 x 5.9 in (W x L x H) Including air pressure connector: 12 x 23 x 15 cm; 4.72 x 9.06 x 5.9 in (W x L x H)
Maximum Distance Analyzer Sample	20 m; 65.61 ft	20 m; 65.61 ft



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